

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of the Claims:

Claim 1 (currently amended): An isolated polynucleotide comprising a nucleotide sequence ~~which encodes~~ encoding ~~a protein having~~ the amino acid sequence set out in SEQ ID NO: 2:

Met-Asn-Gly-Phe-Ala-Ser-Leu-Leu-Arg-Arg-Asn-Gln-Phe-Ile-Leu-Leu-Val-Leu-Phe-Leu-Leu-Gln-Ile-Gln-Ser-Leu-Gly-Leu-Asp-Ile-Asp-Ser-Arg-Pro-Thr-Ala-Glu-Val-Cys-Ala-Thr-His-Thr-Ile-Ser-Pro-Gly-Pro-Lys-Gly-Asp-Asp-Gly-Glu-Lys-Gly-Asp-Pro-Gly-Glu-Glu-Gly-Lys-His-Gly-Lys-Val-Gly-Arg-Met-Gly-Pro-Lys-Gly-Ile-Lys-Gly-Glu-Leu-Gly-Asp-Met-Gly-Asp-Arg-Gly-Asn-Ile-Gly-Lys-Thr-Gly-Pro-Ile-Gly-Lys-Lys-Gly-Asp-Lys-Gly-Glu-Lys-Gly-Leu-Leu-Gly-Ile-Pro-Gly-Glu-Lys-Gly-Lys-Ala-Gly-Thr-Val-Cys-Asp-Cys-Gly-Arg-Tyr-Arg-Lys-Phe-Val-Gly-Gln-Leu-Asp-Ile-Ser-Ile-Ala-Arg-Leu-Lys-Thr-Ser-Met-Lys-Phe-Val-Lys-Asn-Val-Ile-Ala-Gly-Ile-Arg-Glu-Thr-Glu-Glu-Lys-Phe-Tyr-Tyr-Ile-Val-Gln-Glu-Glu-Lys-Asn-Tyr-Arg-Glu-Ser-Leu-Thr-His-Cys-Arg-Ile-Arg-Gly-Gly-Met-Leu-Ala-Met-Pro-Lys-Asp-Glu-Ala-Ala-Asn-Thr-Leu-Ile-Ala-Asp-Tyr-Val-Ala-Lys-Ser-Gly-Phe-Phe-Arg-Val-Phe-Ile-Gly-Val-Asn-Asp-Leu-Glu-Arg-Glu-Gly-Gln-Tyr-Met-Phe-Thr-Asp-Asn-Thr-Pro-Leu-Gln-Asn-Tyr-Ser-Asn-Trp-Asn-Glu-Gly-Glu-Pro-Ser-Asp-Pro-Tyr-Gly-His-Glu-Asp-Cys-Val-Glu-Met-Leu-Ser-Ser-Gly-Arg-Trp-Asn-Asp-Thr-Glu-Cys-His-Leu-Thr-Met-Tyr-Phe-Val-Cys-Glu-Phe-Ile-Lys-Lys-Lys-Lys.

Claim 2 (currently amended): A An isolated polynucleotide comprising the nucleotide sequence set out in SEQ ID NO: 1:

cagcaatgaa tggctttgca tcttgcttc gaagaaacca atttaccctc
ctggtactat ttcttttgca aattcagagt ctgggtctgg atattgatag
ccgtcctacc gctgaagtct gtgccacaca cacaatttca ccaggacca
aaggagatga tggtgaaaaa ggagatccag gagaagaggg aaagcatggc

aaagtgggac gcatggggcc gaaaggaatt aaaggagaac tgggtgatat
gggagatcgg ggcaatattg gcaagactgg gccattggg aagaagggtg
acaaagggga aaaaggtttg cttgaatac ctggagaaaa aggcaaagca
ggtactgtct gtgattgtgg aagataccgg aaatttgtg gacaactgga
tattagtatt gccggctca agacatctat gaagttgtc aagaatgtga
tagcagggat tagggaaact gaagagaaat tctactacat cgtgcaggaa
gagaagaact acaggggaatc cctaaccac tgcaggattc ggggtggaat
gctagccatg cccaaggatg aagctgcaa cacactcatc gctgactatg
ttccaagag tggctcttt cgggtgttca ttggcgtgaa tgacctgaa
agggagggac agtacatgtt cacagacaac actccactgc agaactatag
caactggaat gagggggaac ccagcgacct ctatggcatc gaggactgtg
tggagatgct gagctctggc agatggaatg acacagagt ccatcttacc
atgtactttg tctgtgagtt catcaagaag aaaaagtaac ttccctcatc
ctacgtattt gctatttcc tgtgaccgtc attacagttt ttgttatcca
tctttttt cctgattgta ctacattga tctgagtcaa catagctaga
aaatgctaaa ctgaggtatg gagcctccat catcatgctc tttgtgatg
atttcatat ttcacacat ggtatgttat tgaccaata actcgccagg
ttcatgggt cttgagagag aattttaatt actaattgtg cacgagatg
ttggtgtct atatgtcaaa tgagttgtc tcttggtatt tgcctacca
tctctcccta gagcactctg tgtctatccc agtggataat tcccagttt
actggtgatg attaggaagg ttgtgatgg ttaggctaac ctgccctggc
ccaaagccag acatgtacaa gggctttctg tgagcaatga taagatctt
gaatccaaga tgcccagatg tttaccagt cacaccctat ggccatggct
atacttgga gttctccttg ttggcacaga catagaaatg ctttaacccc
aagcctttat atgggggact tctagctttg tgtctgttt cagaccatgt
ggaatgataa atactctttt tgtgctctg atctatcatc ttactaaca
tataccaagt aggtgctttg aacccttctc ttaggetca caccttaate
tcaggcccct atatagtcac actttgattt aagaaaaacg gagcc.

Claims 3-4 (canceled)

Claim 5 (currently amended): An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a non-coding strand complementary to SEQ ID NO:

1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC; wherein the ~~polypeptide~~ polynucleotide encodes a protein having anti-virus activity and comprises: (1) a Ca²⁺-dependent carbohydrate recognition domain (CRD), (2) a neck region, (3) a collagen-like region, and (4) an N-terminal region containing cysteine.

Claim 6 (previously presented): The polynucleotide according to claim 1 wherein said polynucleotide is cDNA.

Claim 7 (canceled)

Claim 8 (currently amended): An isolated collectin protein ~~comprising~~ consisting of the amino acid sequence set out in SEQ ID NO:2:

Met-Asn-Gly-Phe-Ala-Ser-Leu-Leu-Arg-Arg-Asn-Gln-Phe-Ile-Leu-Leu-Val-Leu-Phe-Leu-Leu-Gln-Ile-Gln-Ser-Leu-Gly-Leu-Asp-Ile-Asp-Ser-Arg-Pro-Thr-Ala-Glu-Val-Cys-Ala-Thr-His-Thr-Ile-Ser-Pro-Gly-Pro-Lys-Gly-Asp-Asp-Gly-Glu-Lys-Gly-Asp-Pro-Gly-Glu-Glu-Gly-Lys-His-Gly-Lys-Val-Gly-Arg-Met-Gly-Pro-Lys-Gly-Ile-Lys-Gly-Glu-Leu-Gly-Asp-Met-Gly-Asp-Arg-Gly-Asn-Ile-Gly-Lys-Thr-Gly-Pro-Ile-Gly-Lys-Lys-Gly-Asp-Lys-Gly-Glu-Lys-Gly-Leu-Leu-Gly-Ile-Pro-Gly-Glu-Lys-Gly-Lys-Ala-Gly-Thr-Val-Cys-Asp-Cys-Gly-Arg-Tyr-Arg-Lys-Phe-Val-Gly-Gln-Leu-Asp-Ile-Ser-Ile-Ala-Arg-Leu-Lys-Thr-Ser-Met-Lys-Phe-Val-Lys-Asn-Val-Ile-Ala-Gly-Ile-Arg-Glu-Thr-Glu-Glu-Lys-Phe-Tyr-Tyr-Ile-Val-Gln-Glu-Glu-Lys-Asn-Tyr-Arg-Glu-Ser-Leu-Thr-His-Cys-Arg-Ile-Arg-Gly-Gly-Met-Leu-Ala-Met-Pro-Lys-Asp-Glu-Ala-Ala-Asn-Thr-Leu-Ile-Ala-Asp-Tyr-Val-Ala-Lys-Ser-Gly-Phe-Phe-Arg-Val-Phe-Ile-Gly-Val-Asn-Asp-Leu-Glu-Arg-Glu-Gly-Gln-Tyr-Met-Phe-Thr-Asp-Asn-Thr-Pro-Leu-Gln-Asn-Tyr-Ser-Asn-Trp-Asn-Glu-Gly-Glu-Pro-Ser-Asp-Pro-Tyr-Gly-His-Glu-Asp-Cys-Val-Glu-Met-Leu-Ser-Ser-Gly-Arg-Trp-Asn-Asp-Thr-Glu-Cys-His-Leu-Thr-Met-Tyr-Phe-Val-Cys-Glu-Phe-Ile-Lys-Lys-Lys-Lys.

Claim 9 (currently amended): A An isolated collectin protein ~~comprising~~
~~consisting of~~ the amino acid sequence encoded by ~~the polynucleotide comprising the~~
 nucleotide sequence set out in SEQ ID NO: 1:

cagcaatgaa tggctttgca tccttgcttc gaagaaacca atttatcctc
 ctggtactat ttcttttgca aattcagagt ctgggtctgg atattgatag
 ccgtcctacc gctgaagtct gtgccacaca cacaatttca ccaggacca
 aaggagatga tggtgaaaaa ggagatccag gagaagaggg aaagcatggc
 aaagtgggac gcatggggcc gaaaggaatt aaaggagaac tgggtgatat
 gggagatcgg ggcaatattg gcaagactgg gccattggg aagaagggtg
 acaaagggga aaaaggtttg cttggaatac ctggagaaaa aggcaaagca
 ggtactgtct gtgatttggt aagataccgg aaatttgtt gacaactgga
 tattagtatt gcccggtcga agacatctat gaagttgtc aagaatgtga
 tagcagggat tagggaaact gaagagaaat tctactacat cgtgcaggaa
 gagaagaact acagggaatc cctaaccac tgcaggattc ggggtggaat
 gctagccatg cccaaggatg aagctgcaa cacactcacc gctgactatg
 ttgccaagag tggcttctt cgggtgttca ttggcgtgaa tgacctgaa
 agggagggac agtacatgtt cacagacaac actccactgc agaactatag
 caactggaat gagggggaac ccagcgacc ctatggatcat gaggactgtg
 tggagatgct gagctctggc agatggaatg acacagagt ccatcttacc
 atgtactttg tctgtgagtt catcaagaag aaaaagtaac ttccctcacc
 ctacgtattt gctattttcc tgtgaccgtc attacagtta ttgttatcca
 tcctttttt cctgattgta ctacattga tctgagtcaa catagctaga
 aaatgctaaa ctgaggtatg gagcctccat catcatgctc ttttgtgatg
 atttcatat ttacacacat ggtatgttat tgaccaata actcgccagg
 ttacatgggt cttgagagag aattttaatt actaattgtg cacgagatag
 ttggtgtct atatgtcaaa tgagttgtt tcttggtatt tgctctacca
 tctctcccta gagcactctg tgtctatccc agtggataat tcccagttt
 actggtgatg attaggaagg ttgtgatgg ttaggctaac ctgccctggc
 ccaaagccag acatgtacaa gggctttctg tgagcaatga taagatcttt
 gaatccaaga tgcccagatg tttaccagt cacacctat ggccatggct
 atacttgaa gttctccttg ttggcacaga catagaaatg ctttaacccc

aagcctttat atgggggact tctagcttg tgtcttggtt cagaccatgt
ggaatgataa atactctttt tgtgcttctg atctatcgat ttactaaca
tataccaagt aggtgctttg aaccccttgc ttaggctca caccttaatc
tcaggccctc atatagtcac actttgattt aagaaaaacg gagcc.

Claim 10 (canceled)

Claim 11 (currently amended): ~~A polypeptide comprising the~~ The isolated collectin protein according to Claim 8 or 9, wherein ~~the amino acid sequence of the~~ polypeptide comprises deletion, substitution and/or addition of one or more amino acids, and wherein the protein comprises: (1) ~~Ca²⁺-dependent carbohydrate recognition domain (CRD),~~ (2) ~~neck region,~~ (3) ~~collagen-like region,~~ and (4) ~~N-terminal region containing cysteine~~ (1) the Ca²⁺-dependent carbohydrate recognition domain comprises amino acid 1 to 46 of SEQ ID NO: 2, (2) the neck region comprises amino acid 47 to 118 of SEQ ID NO: 2, (3) the collagen-like region comprises amino acid 119 to 147 of SEQ ID NO: 2, and (4) the N-terminal region containing cysteine comprises amino acid 148 to 227 of SEQ ID NO: 2.

Claim 12 (currently amended): A method for isolating a polynucleotide encoding the collectin protein according to claim 8 or 9 ~~with anti-virus activity comprising;~~ (1) ~~a Ca²⁺-dependent carbohydrate recognition domain (CRD),~~ (2) ~~a neck region,~~ (3) ~~a collagen-like region,~~ and (4) ~~an N-terminal region containing cysteine;~~ comprising the steps of:

(i) ~~preparing a probe comprising the polynucleotide according to which is~~ complementary to the nucleotide sequence set out in SEQ ID NO: 1;

(ii) hybridizing the probe with a candidate polynucleotide at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-Lauroyl sarcosine and 0.02% SDS; and

(iii) washing the probe at 55°C in a wash solution comprising 2 X SSC; and (iii)

(iv) isolating the hybridized polynucleotide.

Claim 13 (currently amended): An isolated polynucleotide ~~comprising a nucleotide sequence which is~~ complementary to the isolated polynucleotide set out in according to Claim 5.

Claim 14 (new): An isolated collectin protein comprising the amino acid sequence of SEQ ID NO: 2 wherein said amino acid sequence further comprises deletion, substitution and/or addition of (1) one to ten amino acid residue(s) in the Ca^{2+} -dependent carbohydrate recognition domain, amino acids 1 to 46 of SEQ ID NO: 2, (2) one to ten amino acid residue(s) in the neck region, amino acids 47 to 118 of SEQ ID NO: 2, (3) one to fifteen amino acid residue(s) in the collagen-like region comprises amino acids 119 to 147 of SEQ ID NO: 2, and (4) one to twenty amino acid residue(s) in the N-terminal region containing cysteine comprises amino acids 148 to 227 of SEQ ID NO: 2.